

Name: _____ Date: _____ Per.: _____

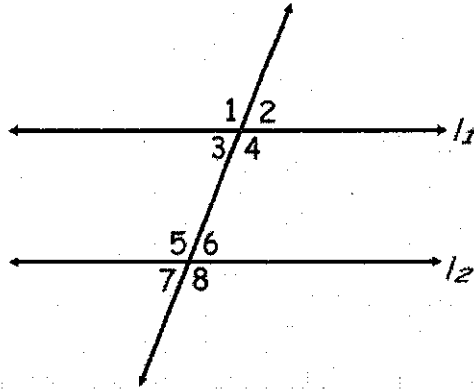
2.12 – Proofs with Parallel Lines

Corresponding Angles POSTULATE:

Theorem to prove: **Alternate Interior Angles Theorem**

Given: $l_1 \parallel l_2$

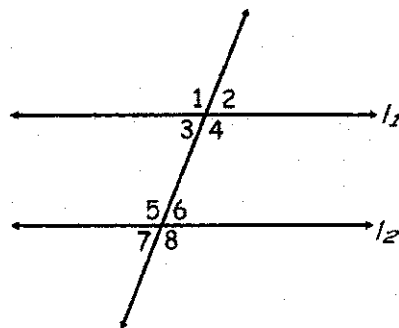
Prove: $\angle 3 \cong \angle 6$



Theorem to prove: Alternate Exterior Angles Theorem

Given: $l_1 \parallel l_2$

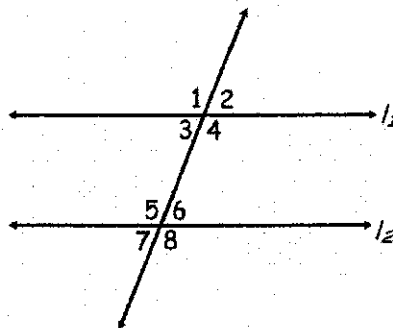
Prove: $\angle 1 \cong \angle 8$



Theorem to prove: Alternate Exterior Angles Theorem (method #2)

Given: $l_1 \parallel l_2$

Prove: $\angle 1 \cong \angle 8$

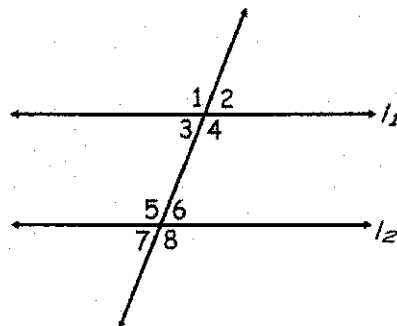


WLPCS
Geometry

Theorem to prove: Same Side Interior Angles Theorem

Given: $l_1 \parallel l_2$

Prove: $\angle 4$ is supplementary
to $\angle 6$



WLPCS
Geometry

Theorem to prove: **Same Side Exterior Angles Theorem**

Given: $l_1 \parallel l_2$
Prove: $\angle 1$ is supplementary
to $\angle 7$

